

J-2310

J-2437

Political Elections of 28 April 1963 --- A

Pre-Election Survy, *1-53 pfp*ITALIAN, ~~man~~ monograph, L'Opinione Politicade Giovani Italiani nel Gennaio 1963, RomeIL, 17 Apr 1963, 21 pp. *pfp 1-53**J* JPRS/SPECIAL/DC-11316*DC-11313*

WE-K Italy

Pol

Apr 65

J-713/60

(DC-4135)

Education in the USSR, 23 pp.

FINNISH, rpt, Opiskelusta Neuvostoliitossa.
Attachments C and D to OFHA-4514, 74-6-350, p 23.

JPRS 3753

USSR

Soc - Education

Aug 60

124,137

The Gases of the Body and the Gas Exchange. The
Respiratory and Total Exchange, by A. Loewy, 4 pp.

HANDBOOK
GERMAN, *see*, Oppenheimers Handb. d. Biochem. *Handb.*,
1911, Abstract, *Q. 1911* ~~Abstract, Q. 1911~~ ~~Abstract, Q. 1911~~
pp 133-306.

NIH 10-31

Scientific - Medicine
Nov 56 CTS

40, 3/0

Repair of Tanks and Other Caterpillar Vehicles,
by Karel Augusta, Vaclav Lopic, et al. 10 pp.

CZECH, bk, Opravy Tanku a Jinych Pasovych
Vozidel, pp 43-45; 49-52; 169-175.

ACSI J-0575

ID 2204042466

EEur/Czech/Mil

Sept 66

309,733

Is a Path of Light Always Reversible, by
C. Fraga Stein.

FRENCH, per, Optica Acta, Vol II, No 1,
1955, pp 16-22.

CSIRO 3045

Sci - Phys

Feb 62

186.662

On Object-image Correspondance in Optics, by
P. Dumontet.
FRENCH, per, Optica Acta, Vol 2, No 2, 1955,
Vpp 53-63.
Navy APL/JHU T-1973
tr \$179

Sci/Physics
Mar 67

318,537

Mercury Mirror as Standard Flat; Preparation of a
Mercury Mirror Insensitive to Vibration and Its
Application to Standard Flat, by R. Bunnagel.
GERMAN, per, Optica Acta, Vol. 3, No. 1, 1956,
pp 81-84.
CSIRO/ No. 7936

Sci -
Aug 67

337-211

Optical Single-Sideband Transmission
Applied to the Gabor Microscope, by
A. Lohmann.

GERMAN, per, Optica Acta, Vol 3, 1956,
pp 97-9.
EIA TT-66-11031

331, 655

Sci
Jul 67

Study of the Optical Properties of Transparent
Thin Layers in Relation to Their Structures, by
P. Bouquet, 22 pp.

FRENCH, par, Optica Acta, Vol III, No 4, Dec 1956,
pp 153-160.

ATIC P-TS-9807/V

Sci - Phys
May 59

86,809

NBS S-151075-67

R-7570-D
27 Sept 66

Zur wellenoptischen Abbildung in Systemen mit grosser
relativer Offnung

By: Joachim Focke

From: Opt Acta, V 4, No 4, Dec. 1957 pp 124-126 (3 pp)

German - est for wds:

Translate and type 1 original copy only. Document
can be cut for paste-up.

A New Type of Spectrometer: A Grating
Interferometer, by Pierre Connes, 332.

FRENCH, per, Optica Acta, 1957, Vol IV, No 4,
pp 136-144.

SLA 59-17750

Sci
Jan 60
Vol 2, No 8

105,549

Improving Contrast in Details of Photographic Images
by Filtering of Spatial Harmonics, by A. Marechal,
P. Crocs, et al, 8 pp.
FRENCH, ~~Wimper~~per, Optica Acta, Vol V, 1958,
pp 256-262.
AT8-56Q71F

Sci-Phys
March 64

640 NASP TTF-12,034 252,097

The Moire Grating as Versatile Test Object: Photo-
electric Aberration Measurement, by A. Lohmann.

GERMAN, per, Optica Acta, Vol VI, No 1, 1959,
pp 37-41.

CSIRO/No 5757

Sci
Feb 63

Position and Visibility of Wedge Interferences
Instrumental Observations, (Contribution to the
Coherence Theory of an Unsymmetrical Interference
Case), by Rudolf Landwehr, 54 pp.

FRENCH, per, Optica Acta (Paris), Vol VI, No 1
1959, pp 52-# 76. 9077351

AEC ~~Tr~~ UCRL-Tr-651(L)

Sci - Phys
Jun 61

157, 737

Lehmann, A.
ACTIVE CONTRAST TRANSFER THEORY. 22p
23 refs
Order from SLA \$2.60

TT-64-16390

Trans. of Optica Acta (France) 1959, v. 6, no. 4
[p. 319-338].

(Physics--Optics, TT, v. 12, no. 3)

TT-64-16390

L. Lehmann, A.

1 NASA TT 64-16390
(240)

Office of Technical Services

Girard, A.
NEW SPECTROSCOPIC INSTRUMENTS WITH HIGH
LUMINOSITY. [1960] 15p.
Order from ATS \$15.95

ATS-20M47P

Trans. of Optica Acta (France) 1960, v. 7, p. 81-97.

151550

(Physics--Spectroscopy, TT, v. 5, no. 8)

61-12787

- I. Spectroscopy--
Instrumentation
- I. Girard, A.
- II. ATS-20M47P
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Heynacher, E.
SOME REMARKS ON THE PROBLEM OF JUDGING
THE QUALITY OF THE OPTICAL IMAGE. [1962]
7p. 6 refs.
Order from SLA \$1.10

62-10974

Trans. of Optica Acta (France) 1960, v. 7, p. 173-178.

DESCRIPTORS: *Optical images, Test methods,
Transmission, *Optical systems, Quality control.

Suitable criteria and methods for judging image quality
are considered, particularly the difficulties arising
from the transmitting the image through the eye of the
observer. (Author)

(Physics--Optics, TI, v. 9, no. 9)

62-10974

I. Heynacher, E.

Office of Technical Services

Trujiluchi, J.
RESTORATION OF ABERRANT IMAGES BY MEANS
OF SPATIAL FREQUENCY FILTERING. PT. I
[1963] 18p
Order from ATS \$18.75

ATS-57Q71F

Trans. of Opt[ics] Acta (France) 1960, v. 7,
p. 243-261.

DESCRIPTORS: *Optical images, Filters
(Electromagnetic wave).

*NACA TT F-12033

(Physics--Optics, TT, v. 11, no. 4)

TT-63-22942

I. Trujiluchi, J.
II. ATS-57Q71F
III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Aberrant Image Restitution by Spatial
Frequency Filtering. Part II.
Restitution of an Image Whose Spectrum
Includes a Negative Portion, by
J. Tsujiuchi.

EUROPEAN, per, Optica Acta, Vol 7,
1960, pp 385-398 11pp.
NTC 72-11864-20F

Raisa TTF-10,035 CUD

June 72

ORDER FROM ATS \$10.75

ATS-58071F

Restoration of Images With Aberration by Filtering
of Spatial Frequencies. III. Restoration of an
Image Photographed With a Bifocal Filter, by
J. Tsujiuchi, 8 pp.
FRENCH, per, Optica Acta, Vol VIII, 1961, pp 161-168.
ATS-59Q71F

Sci-Phys
March 64

GLIO NASA TTF-12, 036

252,098

Note on SiO and Si_2O_3 -Phases in Thin Films,
by H. Ritter.
GERMAN, per, Optica Acta, Vol IX, 1962, pp 197-202.
NASA TT F-9063

Sci-Chem
Oct 64
U.S. GOVERNMENT ONLY

~~REF~~
267,586

Investigations of Non-Negative Signals Through
Linear Filters, by W. Lukosz.

FRENCH, per, Optica Acta, Vol IX, No 4, 1962,
pp 335-364.

*AFCL Res Lab for
Amer Meteorol Soc

Sci - Phys
10 Apr 63

The Effect of Aberrations on the Optical Transfer
Function for Low Spatial Frequencies,
by W. L. Lukosz, 29 pp.
GERMAN, per, Optica Acta, Vol X, 1963, pp 1-19.
9223022
Amer Meteorol Soc
T-G-200

Sci - Phys
Jul 64

263,866

Radiation of Flames with Strongly Scattering
Particles, by Fritz Rossler,
GOVERNMENT USE ONLY
GERMAN, per, Optica Acta, Vol XI, 1964,
pp 21-32. P200109067
RSIC-522

Sci-Muel Sci
May 67

326,158

Two-beam Interference in Plane-mirror Systems,
by G. Schulz, 42 p.
GERMAN, per, Optica Acta, Vol XI, No 43-60,
1964, pp 131-143. 9700556
APCRL T-G-238

Sci-Engr
Jun 66

302,741

The Spatical Distribution of Nedge Interference
Fringes, by G. Minkwitz and G. Schulz, 16 p.
GERMAN, per, Optica Acta, Vol XI, 1964, pp 89-99.
9700554
AFCRL T-G-239

Sci-
Jun 66

302,744

Number of Photons Participating in the Elementary
Development (blackening) Process in Photographic
Emulsion, by H. Determann.
GERMAN, per Optica. Acta, Vol. 11, No. 3, 1964,
pp 333-335
DB 131/T 4705

Sci -
Aug 67

332-662

On the Growth and Structure of Thin Oxide Films on
Aluminum, by G. Hass, 13 pp.

Full translation.

GERMAN, per, Optik, Vol I, No 2, Aug 1946, pp 134-143.

S.L.A.

Scientific - Chemistry

26,018

Jul 55

On the Structure of Treated Surfaces of Rock Salt
(Comparative Surface Examination by Electron
Diffraction and Electron Microscope, by
H. Raether, 17 pp.

GERMAN, per, Optik, Vol I, 1946, pp 296-319.

CIA/FDD/Z-176

28,631

Scientific - Physics

Nov 55 CTS/DEX

CTO-751 Uncl.

THEORY OF THE MACH-ZEHNDER INTERFEROMETER AND
DESCRIPTION OF AN INSTRUMENT WITH SINGLE-MIRROR
ADJUSTMENT. Kinder, W. Translated by J. B. Sykes (Culham
Lab., Abingdon, Eng.), from Optik; 1: 413-48(1946).

instrumentation; translations

ND-37 NP RC

Unlimited

418
Spherical and Chromatic Correction of Electron
Lenses, by O. Scherzer.

GERMAN, per, Optik, Vol II No 2, 1947, pp 114-
132.

CBIRO-2915

Sci

Aug 58

71,059

The Scattering of Light in Turbid Air, by K. Bullrich

GERMAN, ²~~DEUTSCH~~ Optik, Vol II, Bk 4, 1947, pp 301-325.

S.L.A. Tr Pool

Scientific - Astronomy

CTS/DEX

14,331

The Faraday Effect and the Construction
of Thin Iron Coatings, by H. Konig, 26 pp.

GERMAN, per, Optik, Vol III, 1948,
pp 101-119.

Air Res and
Dev Command
T-131 & U
CTB/DEK

Scientific - Physics

13,636

Mechanical Efficiency of Liquid Sparks, by
F. Frumgal, 7 pp.

GERMAN, per, Optik, Vol III, 1948, pp 124-127.

Patent Office

Sci - Engr

219,176

Dec 62

The Luminance of Intense Spark Discharges,
by F. Frumgel.

GERMAN, per, Optik, Vol III, No 1/2, 1948,
pp 128-136.

T.I.L. T.4666

Sci - Electricity, Physics

A-14
35,743

Jun 1956

Optical Building Material Made of Binary
Mixed Crystals, by R. Koope.
GERMAN, per, Optik, Vol 3, No 4, 1948,
pp. 298-304.
HTC 69-11070920F

Sci-Phys
July 69

388,821

Borries, B. v.
THE ENERGY DATA AND LIMITS OF ELECTRON
MICROSCOPY, PT. II (CONCLUSION). [1962] 27p.
(figs. omitted) 31 refs.
Order from SLA \$2.60

62-16518

Trans. of Optik (West Germany) 1948, v. 3, p. 389-412.

DESCRIPTORS: *Electron microscopy, Energy, Elec-
tron optics, Electron guns, Electron microscopes,
Resolution, Focusing

Contents:

Results of the investigation of practical electron guns
The condenser aperture
The brightness and sharpness of the final image
The significance of the energy limits for electron
microscopy

(Physics--Optics, TT, v. 9, no. 9)

62-16518

1. Borries, B. v.

Office of Technical Services

The Scintillation of Terrestrial Radiation,
by H. Siedentopf, F. Wisshak.
GERMAN, per, Optik, Vol III, No 5, 6, 1948,
pp 430-443. 9231681
AEC-UCRL Tr-1269-L

Sci - NS
Jan 66

294,234

The Performance of Binoculars in Twilight Conditions,
by F. Lohle, 17 pp.

Full translation.

GERMAN, Por, Optik, Vol V, 1949, GSW, pp 287-308.

CIA/YDD Z-21

ESur - Germany

Scientific - Physics, ^{opt. CS,} Binoculars, ~~Twilight~~ Conditions

Oct 52 CTS/DEX

Steigerwald, K. H.
A NEW TYPE OF SYSTEM OF PRODUCING BEAMS
FOR THE ELECTRON MICROSCOPE. 21 Aug 61
[12]p. 2 refs.

Order from SLA \$1.60

61-20700

Trans. of Optik (West Germany) 1949, v. 5, no. 8/9,
p. 469-478.

DESCRIPTORS: *Electron microscopes. *Electron
beams, Production, Triodes, Cathodes.

The usual triode system, with hot cathode, Wehnelt
shield and anode, used for beam production in the elec-
tron microscope, has been remodeled. By suitable
shaping of the Wehnelt electrode so that with regard to
illumination intensity, illumination aperture and life-
time it is equivalent to a system working with a con-
denser and moreover offers the advantage of very small
beam current and simple adjustability. (Author)
(Physics--Optics. TT, v. 7, no. 1)

61-20700

I. Steigerwald, K. H.

Office of Technical Services

Producing Plane Polarized Light by Thin Dielectric
Layers, by H. Schroder.
GERMAN, per, Optik, Vol III, Nos 5/6, 1948, pp 499-503.
9694661
DDC RSIC-230

Sci - Phys
Oct 64

268,317

The Electrostatic Lens as a High Resolving
Power Velocity Analyzer, by G. Mollenstedt,
19 pp.

GERMAN, ~~For~~, Optik, Vol V, No 8/9, 1949, pp 499-
517.

NAVY Tr 1243/MRL 537

Sci - Physics

29,136

62-16202

Rang, O.

THE ELECTROSTATIC STIGMATOR, A CORRECTIVE FOR ASTIGMATIC ELECTRON LENSES.

[1962] 18p. (18 figs. omitted) 16 refs.

Order from SLA \$1.60

62-16202

Trans. of Optik (West Germany) 1949, v. 5, no. 8/9, p. 518-530.

DESCRIPTORS: Electron microscopy, *Electron lenses, *Optical instruments, *Electrostatic fields, Lenses, Aspherical lenses, Refractive properties, Electron optics, Cylindrical bodies.

One can employ cylindrical-lens systems in electron-optics to compensate for astigmatic error, as in light optics. An electrostatic field was proposed by O. Scherzer, which has the projecting characteristics of two crossed cylindrical lenses with oppositely (Physics--Optics, TT, v. 8, no. 6) (over)

1. Title: Stigmator

1. Rang, O.

Office of Technical Services

Determination of the Absorption Coefficients of
Soot Particles of Various Flames, by F. Rossler.
GERMAN, per, Optik, Vol 6, No 3, 1950, pp 145-151.
C.E. Trans 5249

Sci-
June 70

Euler, J. and Huppner, W.
CONCERNING A QUANTITATIVE SCHLIEREN PROC-
ESS WITHOUT PHOTOMETRY (Über ein Quantitatives
Schlierenverfahren Ohne Photometrie). [1963] [9p]
(foreign text included) 4 refs
Order from SLA \$1.10

63-20493

Trans. of Optik (West Germany) 1950, v. 6, no. 6,
p. 332-336.

DESCRIPTORS: *Schlieren photography, *Color photog-
raphy, Optical filters, Prisms (Optics)

By the insertion of a second prism in the color schlieren
arrangement according to Schardin and Stamm and by
the use of a slit and a one-sided schlieren diaphragm, a
structure is obtained, which, from the black-and-white
image, in certain cases permits quantitative assertions,
without photometry, with respect to the angle of deflec-
tion of schlieren and flaw points in the object investi-
(Physics--Optics, TT, v. 10, no. 12) (over)

63-20493

I. Euler, J.
II. Huppner, W.

Office of Technical Services

Concerning the Light Emissions of High-Current
Spark Gap Discharge, by Von G. Glaser, 61 pp.
UNCLASSIFIED

GERMAN, per, Optik, Vol VII, Stuttgart, 1950,
pp 33-90.

ATIC F-TS-8149

Scientific - Physics

5592

Spherical Correction of Electron Lenses by Means of
Image-Forming Units without Axial Symmetry, by R.
Seeliger.

GERMAN, per, Optik, Vol VIII, No 7, 1951, pp 311-
317.

CSIRO-2813

Sci

Aug 58

71,061

The Dispersal of the Optical Absorptive Power
of Soots from Flames, by W. Pepperhoff.
GERMAN, par, Optik, Vol 8, 1951, pp 354-366.
CEGB/C.E. Trans 5206

Sci-Phys
Dec 69

398,168

Apparatuses for Measuring the Thickness of Thin
Coatings, by G. C. Monch

GERMAN, per, Optik, Vol VIII, 1951, pp 550-560.

Nat'l Res Council Canada TT 315

Scientific - Engineering
Jul CTS/DEX Price 0.25

16,362

Braunbek, W. and Laukien, G.
DETAILS CONCERNING THE HALF-PLANE DIFFRACTION [Einzelheiten zur Halbebenen Beugung] J. M. Sprecher, tr. [Oct 63] 9p 4 refs
Order from OTS, SLA, or ETC \$1.10 TT-63-24399

Trans. from Optik (West Germany) 1952, v. 9, no. 4.

(Physics--Optics, TT, v. 11, no. 12)

TT-63-24399

I. Braunbek, W.
II. Laukien, G.

Office of Technical Services

Schiekel, M.

ELECTRON OPTIC VELOCITY FILTER (Elektro-
nenoptische Geschwindigkeitsfilter). [1963] [18p]
16refs

Order from SLA \$1.60

TT-64-10038

Trans. of Optik (West Germany) 1952, v. 9, no. 4,
p. 145-153. (Abstract available)

DESCRIPTORS: *Electron optics, *Electron micro-
scopes, *Electric filters, *Electron lenses, Velocity,
Distortion, Inelastic scattering, Resolution,
Integrators.

The normally this contrast of the electron microscope
image is reduced further by chromatic aberration. A
possibility of reducing the chromatic aberration is the
filtering out of the electrons which are inelastically
scattered at the object. In the following work it is
(Engineering--Electronic, TT, v. 11, no. 5) (over)

TT-64-10038

I. Schiekol, M.

Office of Technical Services

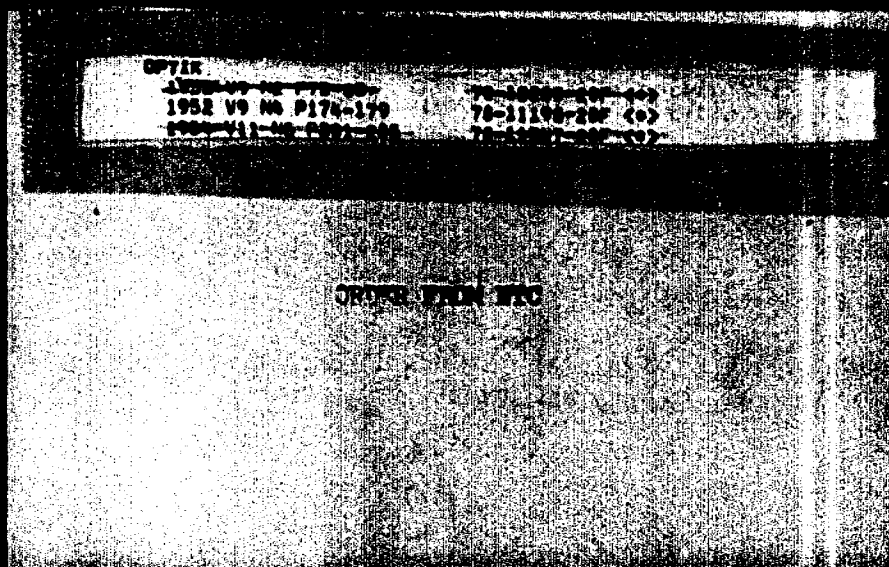
A New Method of Measuring Focal Length, by H.
Schultz.

GERMAN, per, Optik, Vol IX(4), 1952, pp 167-173.

A.C.S.I.L. (Admiralty)
Tr No 52/478 OT 398

Scientific - ~~Miscellaneous~~, 2 focal length, optics

Index Aeronauticus



Determination of the Shape of Thin Single
Crystal Lamellae Using the Fringes Produced
by Crystal Lattice Reflections, by O. Rand.
GERMAN, per, Optik, Vol 10, 1953, pp 90-106.
MS/T 705

Sci-Phys
Dec 69

398,216

Dynamic Pressure Stage Elements for the Projection
of Intense Monokinetic Cylindrical Beams Into
Gases at High Pressure, by B. Schumacher, 13 pp.

CHESMAN, per, Optik, Vol X, 1953, pp 116-131.
Avail from ADSC Tech Serv Tr 83760, East Orange,
N. J.

AND Tr 2070

Scientific - Physics

Mar 55 OHS/DMK

22,285

The Production of Linearly Polarized Light
by Reflection From Coated Metals, by H. Schopper,
17 pp.

GERMAN, per, Optik, Vol X, xMa 1953, p 426.
9069005

AEC-tr-25398

Sci - Min/Met
Dec 62

20, 128

A Simple Stigmator for Magnetic Electron
Lenses, by S. Leisegang.

GERMAN, per, Optick, Vol XI, No 2, 1954,
pp 49-60.

Broken Hill Prop Co Ltd
(CHL/T.648)

Sci - Phys
Apr 62

191, 4/6

**Theory and Practice of Electron Microscopic
Stereophotography, by J. G. Kalmaka, 29 pp.**

**GERMAN, per, Optik, Vol XI, No 5, 1954,
pp 201-225. 9687259**

DDC RBIC-65

**Sci - Phys
Oct 63**

345, 219

NTC 69-15406-06E

20767
11 Oct 68

DC

SF

On the Relaxed State of Accommodation by R.
Schober,

German, per, Optik, Vol.11, No.6, (1), 1954, pp282-290,

Special Type "B": Translator's draft plus one
FW/Sci

T.O 21 Oct 68

source- do not mutilate pp

Fragstein, C. v.
ON THE FORMULATION OF KIRCHHOFF'S LAW
AND ITS USE FOR A SUITABLE DEFINITION OF
DIFFUSE REFLECTION FACTORS (Über die Formu-
lierung des Kirchhoffschen Gesetzes und ihre Bedeutung
für eine zweckmäßige Definition von Remissionszah-
len). [1962] [24]p. (foreign text included) 5 refs.
Order form SLA \$2.60 62-16028

Trans. of Optik (West Germany) 1955, v. 12, no. 2,
p. 60-70.

DESCRIPTORS: *Optics, Theory, Diffusion, Reflection,
Absorption, *Blackbody radiation, Light, Mathematical
analysis.

Kirchhoff's law can be stated either for a small solid
angle $d\Omega$ or for a halfspace (hemisphere). Each case
requires a separate exact definition of the constants
necessary for the characterization of emission, ab-
sorption and diffuse reflection. Kirchhoff's law is di-
(Physics--Optics, TT, v. 8, no. 5) (over)

OTS 62-16028

1. Title: Kirchhoff's law
1. Fragstein, C. v.

Office of Technical Services

Effect of Small Aberrations Upon the Image
Contrast, by A. Maréchal.

GERMAN, per, Optik, Vol XII, 1955, pp 118-122.

CSIRO

Sci - Phys
Jun 62

199,598

Bae, E. B.

A NEW FINE-BEAM ELECTRON GUN WITH AN
INDIRECTLY-HEATED TUNGSTEN ROD CATHODE
AND ION SEPARATION. [1963] 8p. (figs. omitted)
7 refs.

Order from SIA \$1.10

63-18757

Trans. of Optik (West Germany) 1955, v. 12,
p. 377-384.

DESCRIPTORS: *Electron guns, *Tungsten, *Cathodes,
Cathode ray tubes, Ions, Separation, Electron beams,
Design, Operation.

The electron gun differs in two essential features from
conventional arrangements: (1) Use is made of an
indirectly-heated tungsten cathode, the so-called rod
cathode. (2) The arrangement enables the positive
ions to be separated from the electron beam. (Author)
(Engineering--Electronic, TT, v. 10, no. 12)

63-18757

I. Bae, E. B.

Office of Technical Services

✓
Effect of the Moellenstedt Velocity Analyzer,
by W. Lippert, 9 pp.

GERMAN, per, Optik, Vol XII, No 10, 1955,
pp 467-475.

Navy Tr/344/NRL561

Scientific - Physics
Jul 56 CTS/dex

36,256

Anallatic Telescopes, by H. Schulz, 3 pp.

GERMAN, per, Optik, Vol X, No 11, pp 564-566.

CIA/FDD/Z-123

Scientific - Geophysics

19,048

Bender, H.
DIFFRACTION PHENOMENA ON A DIAPHRAGM
WITH FADING-CUT BORDER. [1960] 8p. 1 ref.
Order from SLA mi\$1.80, ph\$1.80 61-10124

Trans. of Optik (East Germany) 1954, v. 11, no. 5,
p. 244-248.

Two examples show that cases exist in which it is de-
sirable to suppress the diffraction at the borders of the
diaphragm.

141,142

(Physics--Optics, TT, v. 5, no. 2)

61-10124

1. Diffraction--Analysis
1. Bender, H.

Office of Technical Services

On Random Light in Optical Instruments, by
J. Hartmann, 23 pp.

GERMAN, per, Optik, Vol XI, 1954, pp 351-365.

SIA Tr 2329

Sci-Physics

50,587

Aug 57

Determination of the Chromatic Aberration Constant of Magnetic Lenses, by H. Watanabe and H. Morito.

GERMAN, per, Optik, Vol XII, No 4, 1955, pp 166-172.

CSIRO-2808

Sci

Aug 58

71,063

Simple Interference Prisms for Determining the
Thickness of Thin Layers, by G. C. Monet, 8 pp.

GERMAN, par, Optik, Vol XII, No 5, 1955, pp 226-232.

ATIC F-TS-8696

Germany

Scientific - Physics

34,272

Nov 55 CTS/DEX

↓
The Effect of Thin Layers and the Visibility of
the Boundary Line of Total Reflection, by H. Anderu.

GERMAN, per, Optik, Vol XIII, No 4, 1956, pp 175-
185.

ASLIV-GB175

Sci

Aug 58

71,055

On the Use Of Point Cathodes In Electron Optics
by Y. Sakaki and G. Mollenstedt.

GERMAN, per, Optik, Vol XIII, No 5, 1956, pp 193-200.

CSIRO

Oct. 62

Diffraction Theory of the Image in a
Prismatic Spectral Apparatus with Rectangular
Aperture, by K. D. Mialens.
GERMAN, rev, Optik, Vol 13, 1956, pp 437-62.
SEA TT-66-11075

331, 658

Sci
Jul 67

Light Refraction and Dispersion of Optical
Glasses in the Invisible Spectral Region,
by P. Reitmayer.

GERMAN, per, Optik, Vol XII, 1956,
pp 544-559.

ASLIB GB 105

Sci - Phys
Apr 62

192,088

Thickness Determination of Microscopic Objects
by Triple Slit Interference, by A. Menzel.

GERMAN, per, Optik, Vol XIV, 1957,
pp 151-164.

CSIRO

Sci - Phys

191,744

Apr 62

Radiation Constants, Maximum Luminous Efficiency,
and Optical Temperature Scale, by H. Moser, U
Stille, C. Tingvaldt, UNCL

GERMAN, per, Optik, Vol XIV, 1957, pp 291-302.

DSIR/32589/CT

6/13/59

Sci - Phys
Feb 59

81,427

Krochel, W.
A SIMPLE ELECTRICAL METHOD FOR THE DIRECT
MEASUREMENT OF THE VELOCITY OF LIGHT FOR
USE IN CLASSROOM AND LABORATORY DEMON-
STRATIONS. Apr 60 [12]p. 5 refs. Picatinny Arsenal
Trans. no. 81; AD-236 383.
Order from OTS or SLA \$1.60

60-17401

Trans. of Optik (West Germany) 1957, v. 14, no. 7/8,
p. 353-360.

DESCRIPTORS: *Light, Velocity, Measurement,
*Electrical equipment.

An electrical measuring arrangement is described
which permits a direct determination of the velocity of
light over distances from 5 to 10 meters with an error
margin of less than 1%. This arrangement commends
itself by its simplicity of procedure and it reduces the
measurement itself to a direct reading of time intervals
from the screen picture of a cathode ray tube and a
measurement of distance. (Author)

60-17401

- I. Krochel, W.
- II. PA Trans-81
- III. Joint Publications Research
Service, New York
- IV. AD-236 383

093000

Office of Technical Services
(Physics--Optics, TT, v. 6,
no. 8) 8-24-61

Microscopic and Oscillographic Examinations of
the Electroluminescence of Isolated Diamonds,
by E. Krautz, G. Zollfrank

GERMAN, per, Optik, Vol XIV, 1957, pp 446-457

*Research Translation Center
Emmanuel College
The Fenway
Boston, Mass.

Sci - Phys
Mar 62

Resolving Power and Frequency Range In the Photographic Reproduction Of High-contrast Objects by W. Lukosz.

GERMAN, per, Optik, Vol XIV, 1957, pp 490-502.

CSIRO

Oct 62

Measurement Of the Optical Transmission Factor by
A. Lohmann.

GERMAN, per, Optik, Vol XIV, 1957, pp 510-518.

CSIRO

Oct. 62

The Theory of Photoelectric Emission, by P. Gorlich,
H. Hora, 11 pp.

GERMAN, per, Optik, Vol XV, 1958, pp 116-126.

AEC UCRL^I-Trans-564(L)

Sci - Phys
9 Jan 61
List 46

135,534

Investigation of the Long-Focus Cathode According
to Steigerwald, by F. W. Brauns, 15 pp.

GERMAN, per, Optik, Vol XV, # 1958, pp 242-260.

SLA 61-18909

Sci
Mar 62
Vol VII, No 3

188,074

Greater Matching-Accuracy With Disappearing Filament
Optical Pyrometers by Means of Contrast Plates,
by J. KIBLER, 17 pp.

GERMAN, per, Optik, Vol XV, 1958, pp 372-381.
9208285

AEC-Tr-5725

Sol - Phys

Jun 63

234,283

Haidinger Interferometer With Linear Scale for
Measuring Changes in Thickness of Plane Parallel
Plates, by R. Riekher.

~~Journal~~, per, Optik, Vol XV, No 12, 1958, pp 713-723.

Summary

CSIRO/No 5856

Sci
Jun 63

On the Accuracy of Measurement in the
Determination of Absorption Constants of
Semi-Conductors in the Infrared Spectral
Region, by F. Oswald, 14 pp.

GERMAN, per, Optik, Vol. IV, No 9, 1959,
p 527. 9066979

AEC Tr-5274

Sci - Phys
Oct 62

275,530

Braucke, P. W.
IMPROVEMENT OF THE TELE-FOCUS CATHODE
DEVELOPED BY STEIGERWALD THROUGH IN-
STALLATION OF AN ADDITIONAL ELECTRODE.
[1961][12]p. 5 refs.
Order from SLA \$1. 60

61-20717

Trans. of Optik (West Germany) 1959, v. 16, no. 3,
p. 304-312.

DESCRIPTORS: Electron microscopes, *Electron
beams, *Cathodes, Electrodes, Design

By including an auxiliary electrode in the direct focus-
ing system developed by Steigerwald it is possible to
increase the intensity of the directed beam and to
change the distance of the smallest beam cross section
from the emitter by varying the potential on the auxil-
iary electrode. The effect of the essential values of
(Physics--Optics, TT, v. 7, no. 4) (over)

61-20717

1. Braucke P. W.

Office of Technical Services

Simple Procedure for Evaluation of Electron
Microscopic Stereo-Pictures, by G. Pohlmann,
et al.
GERMAN, per, Optik, Vol 16, 1959, pp 461-471.
HEW NIH 8-18-67

Sci - B&M
Sept. 67

340,453

Investigations on Frequency Response, by
H. Kubota, et al.

OPTIK, par, 2 Optik, No 3, 1960, pp 143-151.

EROL, Ft Belvoir T-1115
(AD 291,461)

Sci - Phys
Jun 8 63

234,474

An Apparatus for the Measurement of the Frequency
Response Functions of Optical Systems, by
H. Zeman.

113
EML GERMAN, per, Optik, Vol. XVII, 1960, pp 152-159.

ERML, Ft Belvoir T-1647
(AD 291,490)

Sci - Faya
Jun 63

234,476

Measurement of Asymmetrization by Microinterferometry
and Its Utility for the Evaluation of Photo-
graphic Film Characteristics, by S. Hayashida.

OPTIK, part 2 Optik, Vol XVII, 1966, pp 160-167.

STEL, Ft Belvoir 2-1646
(AD 287,767)

Sci - Phys
JUN 68

234,472

Studies on the history of Space Station II,
by H. Gauthier.

Ordnance, Optics, Vol XXII, ¹⁵²³1960, pp 158, 160.

INEL, Ft Belvoir T-1049
(AD 201, 1963)

Ref - Phys
Jun 63

234,871

Studies on the Theory of Spatial Vision, II and IV,
by H. Guenther, Carl Zeiss, 19 pp.

GERMAN, per, Optik, Vol XVII, No 3, 1960, pp 168-176.
9689181

DDC RSIC-75

Sci - Physics
Nov 63

243,4#77

Studies on the Theory of Spatial Vision, II and IV,
by H. Guenther, Carl Zeiss, 19 pp.

GERMAN, per, Optik, Vol XVII, No 5, 1960, pp 278-282.
9689181

DDC RSIC-75

Sci - Physics
Nov 63

243,479

Characteristic Magnitudes of Diffuse Reflection, by G. Bauer.

GERMAN, per, Optik, Vol XVII, No 6, 1960,
pp 315-329.

CSIRO 5299

Sci - Phys
Apr 62

191, 391

A Method for Simplified Calculation with Planck's
Radiation Law, by M. Czerny,

GERMAN, per, Optik, Vol XVII, No 12, ~~195~~ 1960,
pp 671-677.

CSIRO/No. 5544

Sci

Dec 62

A Simple Method for Determining the Refractive
Index of Thin Weakly Absorbing Films,
by A. Heisen.

GERMAN, per, Optik, Vol XVIII~~X~~, No 1,
1961, pp 27-36.

GB/4/T/1683

Sci
Dec 62

Optical Density and Thickness of Evaporated Carbon
Films, by K. Graff.
GERMAN, per, Optik, Vol XVIII, 1961, pp 120-129.
9231903
AEC-ANL-Tr-249

Sci - Eng
Feb 66

295,433